

# **TIGER**

# **TIGER BC**

# **SKIPPER**

# **ARVEX**

# **ARVEX BC**

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**DECLARATION OF CONFORMITY  
ISSUED ON NOVEMBER 20TH, 2013**

The company **ARVEN s.r.l. - via Artigiani, n°10 - 25030 MACLODIO (BS) - ITALY**, under its own responsibility, declares that the pumps **TIGER, TIGER BC, SKIPPER, ARVEX & ARVEX BC** are in accordance with the following directives:

- Directive on electromagnetic compatibility **2004/108/CE** and subsequent revisions.
- Directive on Low voltage **2006/95/CE** and subsequent revisions.
- Machines directive **2006/42/CE** and subsequent revisions.
- ROHS 2002/95/CE** directive for the restrictions on the use of dangerous substances in electrical and electronical equipment.

Marcello Grazioli  
Technical & Quality Dept.  
**ARVEN s.r.l.**

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## **1 GENERAL POINTS**

**Read this documentation carefully before installation.**



Installation and functioning must comply with local and national safety regulations in force in the country where the product is to be installed.

The entire operation must be carried out in a workmanlike manner.

Failure to comply with the safety regulations not only causes risk to personal safety and damage to the equipment, but also invalidates any right to warranty assistance.

**Keep this manual in a safe place for further consultation even after the first installation.**

## **2 APPLICATIONS**

These motor pumps (**TIGER, TIGER BC, SKIPPER, ARVEX & ARVEX BC**) are used in apparatus for hoisting clear and dirty water from wells, for emptying settling beds, for pumping water also in the presence of suspended solid bodies and for pumping aggressive liquids (**ARVEX AISI 316 only**). The particularly silent motor pumps installed inside wells or tanks avoid all problems related to suction and depriming.

The motor pump can be supplied with a floating switch should it be necessary to turn it off in case of inadequate water level.

**These pumps cannot be used in swimming pools, ponds or tanks in which people are present, or for pumping hydrocarbons (petrol, diesel fuel, fuel oils, solvents, etc.) in accordance with the accident-prevention regulations in force.**



**N.B. :** The liquid employed in the pump for lubricating the sealing device is not toxic, but it could alter the water properties (in the case of pure water) if there were any leaks in the seal.

## **3 PUMPED FLUIDS**

The machine has been designed and built for pumping water, free from explosive substances, and solid particles or fibres, with a density of 1 Kg/dm<sup>3</sup> and a kinematic viscosity of 1mm<sup>2</sup>/s, and chemically non-aggressive liquids.



## **4 TECHNICAL DATA AND USE LIMITATIONS**

- **Supply voltage:** see electric data plate
- **Absorbed power:** see electric data plate
- **Maximum ,working pressure:** 1,5 Bar
- **Pumped fluid:** solids and abrasive substances (**for only ARVEX AISI 316**); not aggressive.
- **Degree of motor protection:** IP 68
- **Thermal class:** F
- **Liquid temperature range:** from 0°C to 25°C with pump part. submerged  
from 25°C to 35°C with pump full submerged
- **Maximum immersion:** 5 metres
- **Storage temperature:** from -10°C to +40°C
- **Noise level:** noise level is contained within the limits envisaged by EC Directive **EC 89/392/CEE** and subsequent modifications.  
≤70 dB
- **Motor constructions** in accordance with CEI 2-3 - CEI 61-69 (EN 60335-2-41) standards.

## **5 MANAGEMENT**

### **5.1. STORAGE**

All the pumps must be stored indoors. in a dry. vibration-free and dust-free environment, possibly at constant air humidity.

They are supplied in their original packaging and must be kept there until installation.

### **5.2. TRANSPORT**

Avoid subjecting the products to needless jolts or collisions.

**The electropumps must never be carried or lifted by their power cables.**



## **6 WARNINGS**

### **6.1. QUALIFIED PERSONNEL**

**Installation should be performed by skilled and qualified personnel, in possession of the technical qualifications required by the specific regulations in force.**

The term **qualified personnel** means persons who, because of their training, experience and regulations as well as all operating circumstances, have been entitled by the person responsible for the system to work on and with the system and to see and avoid all possible dangers (Definition for technical personnel. (Definition for technical personnel IEC 364).



### **6.2. SAFETY**

-Use is allowed only if the electric system is provided with safety precautions in accordance with the regulations in force in the country where the product is installed (for Italy, CEI 64/2).

-Never let the pump run dry.

-The pump cannot be used in swimmingpools, ponds or tanks in which people are present.

-The pump is provided with a handle to which a rope or cable may be connected to lower the machine into working position.

**The pumps must never be carried, lifted or operated hanging from their power cables.**

-Qualified personnel must be employed for all electrical repairs which, if badly carried out, could cause damage and accidents.

### **6.3. MOTOR SHAFT ROTATION CHECK**

If the motor does not work when the switch is enabled and the shaft does not turn, make sure that the moving parts are rotating freely.

For this reason:

-Disconnect completely the motor pump from the electric system.

-Place the motor pump horizontally.

- Turn the motor shaft clockwise by using an open end wrench no. 13 and acting on the self-locking nut through the hole under the pump.

- Turn over the motor pump and install it as indicated in chapter 7.

### **6.4.MOTOR SHAFT ROTATION CHECK**

If the motor does not work when the switch is enabled and the shaft does not turn, make sure that the moving parts are rotating freely.

For this reason:

- Disconnect completely the motor pump from the electric system.

- Place the motor pump horizontally.

- Remove the supporting base.

- Turn the motor shaft clockwise by using an open end wrench no. 13 and acting on the self-locking nut.

## 6.5 RESPONSIBILITY



The Manufacturer does not vouch for the correct operation of the pumps and will not be responsible for damages that might be caused by them, in case they are tampered with or modified, run outside the recommended work range or in contrast with the other instructions given in this manual.

The Manufacturer assumes no liability resulting from or omissions in this booklet, if due to misprints or errors in copying. The company reserves the right to make modifications to the products described herein, when considered necessary or useful, without changing the essential characteristics of the product itself.

## 7 INSTALLATION

### 7.1 SITE OF INSTALLATION

- Pumps marked with maximum liquid temperature ( $^{\circ}\text{C}$ ) which not less than  $35^{\circ}\text{C}$ .
- Before immersing the electropump in the pit or tank, ensure that the place is free from sand or solid sediment.
- In case there is sediment, accurately clean the site where it is to be placed.
- Keep the pump at least 1 mt. raised above the bottom of the pit so that any deposits that form after installation will not be sucked up.
- Remove the sediment periodically.
- It is very important to ensure that the water level never falls below the body of the pump.

### 7.2 WORKING CONDITIONS

- Pump body always completely immersed.
- The pump cannot operate dry.
- Installation in vertical or horizontal position.
- The housing pit must be frost-free.
- Maximum depth of immersion 5 mt. (below water level).

### 7.3 PIPING

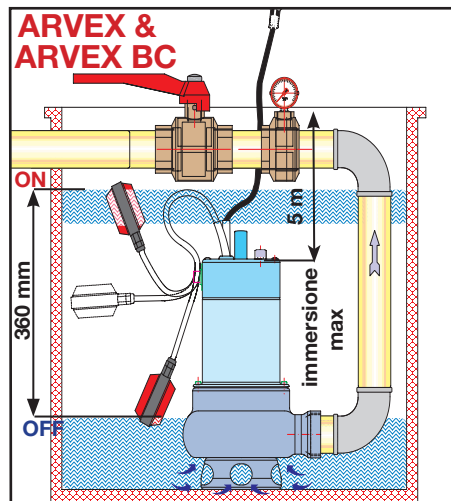
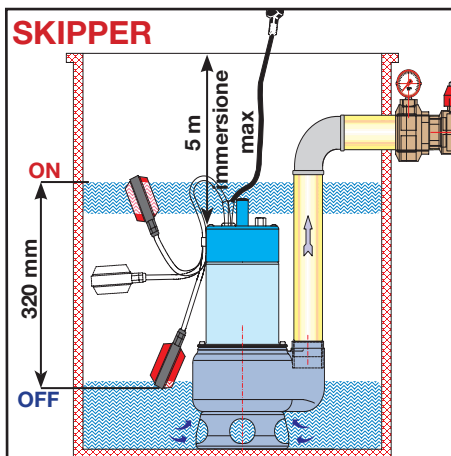
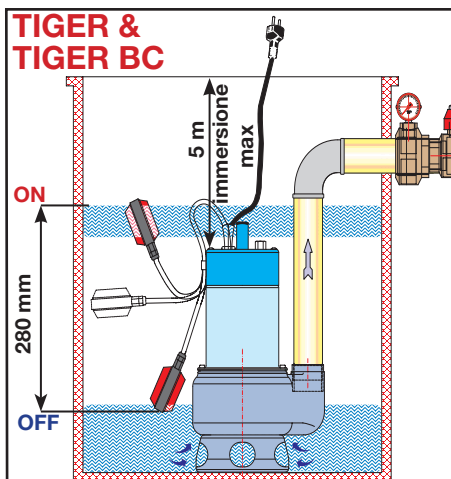
- Put the pump into the liquid to be pumped (Inspect for the max. pumping height, refer to the performance curve)
- The hydraulic connection of the pump may be made with iron or plastic parts, either rigid or flexible.
- Avoid any kind of choking of the output pipe.
- It is advisable to use pipes with an internal diameter at least equal to that of the delivery pipe, so as to avoid a fall in the performance of the pump and the possibility of clogging.
- For the version with a float switch, ensure that the latter can move freely (see Paragraph 9.2. “**REGULATING THE FLOAT SWITCH**”).  
The size of the pit must always be calculated in relation to the quantity of incoming water and to the flow rate of the pump so as not to subject the motor to an excessive number of starts.
- To lower the pump, always use a rope or chain fixed beforehand to the upper handle on top of the pump.

### NEVER USE THE POWER CABLE TO LIFT THE ELECTRO-PUMP.

- When using in deep wells, it is advisable to secure the power cable to the delivery pipe with clamps, every two/three metres.

### INSTRUCTIONS FOR SAFE USE:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack experience and knowledge, unless they have been given supervision or instruction.
- Children should be supervised to ensure that they do not play with the appliance.
- The pump must be supplied through a residual current device (RCD) with a rated residual operating current  $\leq 30\text{ Ma}$ .





WARNING! The pump should not be run dry! It should be put fully into the liquid to be pumped. Slurping for long periods should be avoided.



The length of the power cable on the electropump limits the maximum depth of immersion at which the pump may be used.

## **8 ELECTRICAL CONNECTIONS**

### **CAUTION! ALWAYS FOLLOW THE SAFETY REGULATIONS!**



**8.1 The electrical installation must be carried out by an authorized and competent electrician who assumes all the responsibilities.**

**8.2. Ensure that the mains voltage is the same as shown on the plate of the motor to be fed and be sure **TO MAKE A GOOD GROUND CONNECTION.****

**8.3. The electropump, both the single-phase and the three-phase version is supplied with an electric cable. If the power cable is damaged in any way it must be replaced, not repaired.**

- It is advisable to connect the pump to a dedicated power line.
- Upstream from the pump, fit a suitably sensitive magnetothermal differential switch.
- Switch off the power upstream from the system before making the electrical connection.
- Single-phase motors are provided with built-in thermal overload protection and may be connected directly to the mains.

**Warning: If the motor is overloaded it stops automatically.**

**Once it has cooled down it starts again automatically without requiring any manual intervention.**

- Three-phase pumps must be protected with motor protectors suitably calibrated according to the values on the data plate of the pump to be installed.
- Connect the pump cable to the electric panel, ensuring that the following parts correspond:

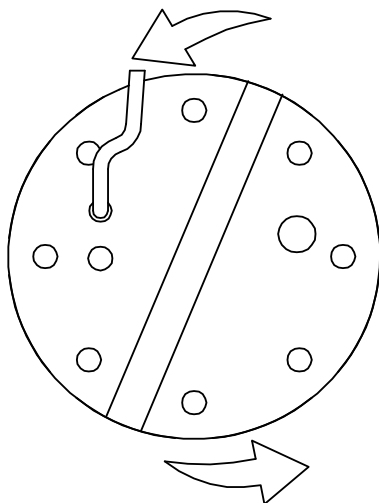
#### **SINGLE PHASE**

Yellow-green	→	
Brown	→	L1
Blue	→	N

- Before making a test start, check the water level inside the well.

## 8.4 CHECKING THE DIRECTION OF ROTATION (for three-phase motors)

### TIGER-TIGER BC-SKIPPER-ARVEX-ARVEX BC



**Fig. 2**

**CAUTION! ALWAYS FOLLOW THE SAFETY REGULATIONS**

The direction of rotation must be checked each time a new installation is carried out. Proceed as follows:

1. Place the pump on a flat surface;
2. Start the pump and stop it immediately;
3. Carefully observe the kick-back on starting, looking at the pump from above. If the direction of rotation is correct, the upper cap will turn counter-clockwise as indicated by the arrows in the drawing (Fig. 2).

If it is not possible to check as described above because the pump is already installed, check as follows:

1. Start the pump and observe the water flow rate.
2. Stop the pump, switch off the power and invert two phases on the supply line.
3. Restart the pump and check the water flow rate again.
4. Stop the pump.

**The correct direction of rotation is the one that gives the higher flow rate.**

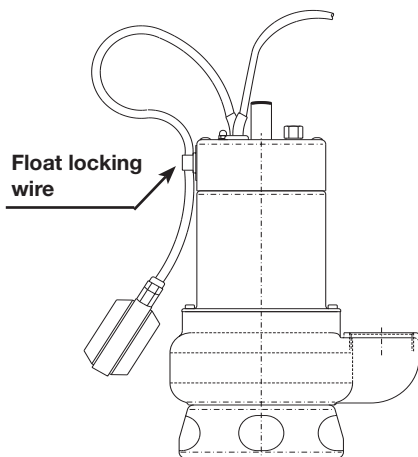
## **9 START-UP**

- 9.1• Turn the differential magnetothermal switch upstream from the pump to position I (ON) and wait until the water comes out of the delivery pipe.
- If malfunctions are found, disconnect the pump from the power supply, turning the differential magnetothermal switch to position 0 (OFF) and consult the chapter on **“TROUBLESHOOTING”**(paragraph 13).
- The pump may be started and stopped:
  - Manually by means of the differential magnetothermal switch upstream from the system.
  - Automatically when water level rises, for versions with a float switch.

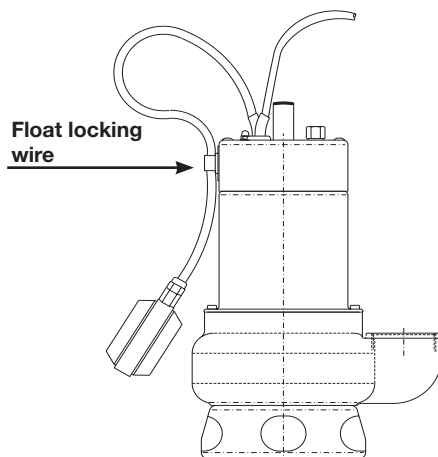
## 9.2.FLOAT SWITCH SETTING

By lengthening or shortening the stretch of cable between the float and the fixed point (Float locking) it is possible to regulate the level at which the pump switches off. Ensure that the float witch can move freely when the pump is operating.

### TIGER



### TIGER BC - SKIPPER



### ARVEX - ARVEX BC

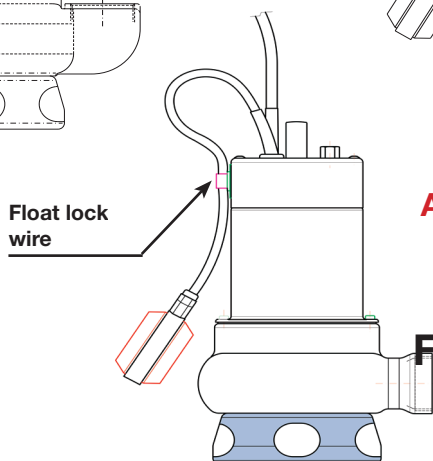


Fig. 2

Fig. 3

## 10 PRECAUTIONS

The pump must not be started more than 15 time in one hour so as not to subject the motor to excessive thermal stress.

- **DANGER OF FROST:** When the pump remains inactive at temperatures of less than 0°C, it is necessary to ensure that there is no water residue which might freeze, and cause cracking of the pump components.
- If the pump has been used with substances that tend to deposit, rinse it after use with a powerful jet of water so as to avoid the formation of deposits or scale which would, tend to reduce the pump characteristics.

## 11 MAINTENANCE AND CLEANING

In normal operation the pump does not require any type of maintenance, thanks to the oil bath lubricated seal and to the greased-for-life bearings.

**The electropump can only be dismantled by skilled and qualified personnel, in possession of the technical qualifications required by the specific regulations in force.**



In any case, all repair and maintenance jobs must be carried out only after having disconnected the pump from the power mains, once made sure that it cannot suddenly begin working. During dismantling it is necessary to pay great attention to sharp parts which may cause injury. The cutting edge flange of the electropump is provided of aspiration fans. It is advisable, every now and then, to clean these fans to avoid a loss of efficiency. Best cleaning is obtained through a throw of water. Sand and other abrasive materials cause precocious wear and tear, as well as loss of performances.



## **12 MODIFICATIONS AND SPARE PARTS**

**Any modification not authorized beforehand relieves the manufacturer of all responsibility.**

All the spare parts used in repairs must be original **ARVEN**. For codes and denominations see **enclosed sheet.**

All accessories must be approved by the manufacturer so as to be able to ensure maximum safety of the machines and systems in which they may be fitted.

## **13 TROUBLESHOOTING**

<b>FAULT</b>	<b>CHECK (possible cause)</b>	<b>REMEDY</b>
<b>1.</b> The motor does not start and makes no noise.	<p><b>A.</b> Make sure motor is live and check that the mains voltage corresponds to the one on the data plate.</p> <p><b>B.</b> Check the protection fuses.</p> <p><b>C.</b> The float switch prevents start-up.</p> <p><b>D.</b> The shaft is not turning.</p>	<p><b>B.</b> If they are burnt-out, change them.</p> <p><b>C.</b> Make sure float moves freely and check its efficiency.</p> <p><b>D.</b> Turn the shaft as indicated in the Warnings chapter (Paragraph 6.3. ).</p>
<b>2.</b> The pump does not deliver.	<p><b>A.</b> The pipes are obstructed.</p> <p><b>B.</b> The impellers are worn or blocked.</p> <p><b>C.</b> The fluid level is too low. On starting, the water level must be higher than the filter level.</p> <p><b>D.</b> The head required is higher than the pump's characteristics</p>	<p><b>A.</b> Remove the obstructions, as indicated in the Warnings chapter (Paragraph 6.4).</p> <p><b>B.</b> Change the impellers or remove the obstruction.</p> <p><b>C.</b> Regulate the length of the float switch cable (See chapter on Warnings - Paragraph 9.2.)</p>
<b>3.</b> The pump does not stop.	<b>A.</b> The float does not interrupt the operating of the pump.	<b>A.</b> Make sure float moves freely and check its efficient.

FAULT	CHECK (Possible cause)	REMEDY
<p><b>4.</b>The flow rate is insufficient.</p>	<p><b>A.</b> Ensure that the impellers or the delivery pipe are not partly blocked or fouled with scale.</p> <p><b>B.</b> Ensure that the impellers are not worn.</p> <p><b>C.</b> Check the direction of rotation in three-phase versions (See Chapter on Electrical connection - Paragraph 8.4.).</p>	<p><b>A.</b> Check good operation of the valve and replace it if necessary.</p> <p><b>B.</b> Change the impellers</p> <p><b>C.</b> Invert two wires in the power cable.</p>
<p><b>5.</b>The overload protection device stops the pump.</p>	<p><b>A.</b> Ensure that the fluid to be pumped is not too dense because it would cause overheating of the motor</p> <p><b>B.</b> Ensure that water temperature is not too high (see liquid temperature range).</p> <p><b>C.</b> The pump is partly blocked by impurities.</p> <p><b>D.</b> The pump is mechanically blocked.</p>	<p><b>B</b> Reduce liquid temperature. Wait until thermal protection switch resets, about 20 mins.</p> <p><b>C.</b> Accurately clean the pump.</p> <p><b>D.</b> Check for the occurrence of rubbing between moving and fixed parts; check the state of wear of the bearings (contact the supplier).</p>



### **DON'T DISPOSE OF WORN-OUTS UNITS THROUGH THE HOUSEHOLD GARBAGE**

The appliance, its packaging and accessories are all produced from recyclable materials and must be disposed of accordingly, in the suitable dispose places, adhering itself to the modalities previewed from the enforced norms in matter

## 14 TECHNICAL DATA

TECHNICAL DATA	TIGER 70 1 ~ Phase 3 ~ Phases	TIGER 80 1 ~ Phase 3 ~ Phases	TIGER 100 1 ~ Phase 3 ~ Phases	TIGER 150 1 ~ Phase 3 ~ Phases	TIGER 200 1 ~ Phase 3 ~ Phases
Electric connection/voltage	220-230 V/50 HZ ---	220-230 V/50 HZ 380-400 V/50 HZ	220-230 V/50 HZ 380-400 V/50 HZ	220-230 V/50 HZ 380-400 V/50 HZ	---
Power rating P1 (Kw)	0,9 ---	1,1 0,9	1,5 1,3	2,2 1,7	---
Current absorption (A)	4,0 ---	5,0 2,0	6,5 2,4	10,4 3,0	---
Max. High head pressure(mt)	6,5	7,5	8,5	11	13
Max. capacity (l/min)	200	260	400	450	500
Max temp. of liquid (°C)	50	50	50	50	50
Horizontal suction. (mm)	150	150	150	150	150
Max. submersion depth (mt)	5	5	5	5	5
N° of impellers	1	1	1	1	1
Electric cable (mt)	5-10	5-10	5-10	5-10	5-10
Foreign bod. aspir. up to ø (mm)	30	35	50	50	50
Discharge conn. thread <b>DNM</b>	1 1/2"	1 1/2"	2"	2"	2"
Pump dimension <b>BxD</b> (mm)	150 x 360,5	150 x 372,5	150 x 385,5	150 x 395,5	150 x 395,5
Packing dim. <b>LxMxN</b> (mm)	190 x 230 x 410	190 x 230 x 410	190 x 230 x 410	190 x 230 x 480	190 x 230 x 480
Weight (Kg)	11	12	13	15	15

-The characteristics and technical data are not binding. **Arven** reserves the right to make modifications without notice. Therefore weights, dimensions, performances and any other stated issues are indicative only and not binding

TECHNICAL DATA	TIGER BC 100 1 ~ Phase 3 ~ Phases	TIGER BC 150 1 ~ Phase 3 ~ Phases	TIGER BC 200 1 ~ Phase 3 ~ Phases
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz	--- 380-400 V/50 Hz
Power rating P1 (Kw)	1,5 1,3	2,2 1,7	--- 2,2
Current absorption (A)	7 3,2	11,5 4,5	--- 4,8
Max. High head pressure (mt)	11,5	14,5	16
Max. capacity (l/min)	500	600	700
Max temperature of liquid (°C)	50	50	50
Horizontal suction. (mm)	65	65	65
Max. submersion depth (mt)	5	5	5
N° of impellers	1	1	1
Electric cable (mt)	10	10	10
Foreign bodies aspir. up to ø... (mm)	50	50	50
Discharge connection thread <b>DNM</b>	2"	2"	2"
Pump dimension <b>BxD</b> (mm)	150 x 367	150 x 407	150 x 407
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 480	190 x 230 x 480	190 x 230 x 480
Weight (Kg)	14	16	16

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Therefore weights, dimensions, performances and any other stated issues are indicative only and not binding

TECHNICAL DATA	SKIPPER 80 1 ~ Phase 3 ~ Phases	SKIPPER 100 1 ~ Phase 3 ~ Phases	SKIPPER 150 1 ~ Phase 3 ~ Phases	SKIPPER 200 1 Phase 3 Phases
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz	--- 380-400 V/50 Hz
Power rating P1 (Kw)	1,1 0,9	1,5 1,3	2,2 1,7	--- 2,2
Current absorption (A)	5 2	6,5 2,4	10,4 3,0	--- 3,6
Max. High head pressure (mt)	7,5	8,5	11	13
Max. capacity (l/min)	260	400	450	500
Max temperature of liquid (°C)	50	50	50	50
Horizontal suction. (mm)	150	150	150	150
Max. submersion depth (mt)	5	5	5	5
N° of impellers	1	1	1	1
Electric cable (mt)	5-10	5-10	5-10	5-10
Foreign bodies aspir. up to ø. (mm)	35	50	50	50
Discharge connection thread <b>DNM</b>	1 1/2"	2"	2"	2"
Pump dimension <b>BxD</b> (mm)	164 x 355	164 x 355	164 x 395	164 x 395
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 410	190 x 230 x 410	190 x 230 x 410	190 x 230 x 410
Weight (Kg)	10,5	11,5	13,5	13,5

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<b>TECHNICAL DATA</b>	<b>ARVEX/S 80 (AISI 316) 1 ~ Phase 3 ~ Phases</b>	<b>ARVEX/S 100 (AISI 316) 1 ~ Phase 3 ~ Phases</b>	<b>ARVEX/S 150 (AISI 316) 1 ~ Phase 3 ~ Phases)</b>
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz
Power rating P1 (Kw)	1.1 0.9	1.5 1.3	2,2 1,9
Current absorption (A)	5,0 2,1	6,5 2,6	9,4 3,4
Max. High head pressure (mt)	10,5	10,5	13
Max. capacity (l/min)	230	400	425
Max temperature of liquid (°C)	50	50	50
Horizontal suction. (mm)	85	85	85
Max. submersion depth (mt)	5	5	5
N° of impellers	1	1	1
Electric cable (mt)	5-10	5-10	5-10
Foreign bodies aspir. up to ø... (mm)	30	50	50
Discharge connection thread <b>DNM</b>	2"	2"	2"
Pump dimension <b>BxD</b> (mm)	176 x 358	176 x 358	176 x 398
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 410	190 x 230 x 410	190 x 230 x 410
Weight (Kg)	10,5	11,5	13,5

-The characteristics and technical data are not binding. **Arven** reserves the right to make modifications without notice. Therefore weights, dimensions, performances and any other stated issues are indicative only and not binding

TECHNICAL DATA	ARVEX 80 (AISI 304) 1 ~ Phase 3 ~ Phases	ARVEX 100 (AISI 304) 1 ~ Phase 3 ~ Phases
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz
Power rating P1 (Kw)	1,1 0,9	1,5 1,3
Current absorption (A)	5,1 2,1	6,5 2,6
Max. High head pressure (mt)	9,5	10,5
Max. capacity (l/min)	300	400
Max temperature of liquid (°C)	50	50
Horizontal suction. (mm)	85	85
Max. submersion depth (mt)	5	5
N° of impellers	1	1
Electric cable (mt)	5-10	5-10
Foreign bodies aspir. up to ø... (mm)	50	50
Discharge connection thread <b>DNM</b>	1 1/2"	2"
Pump dimension <b>BxD</b> (mm)	176 x 358	176 x 358
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 410	190 x 230 x 410
Weight (Kg)	10,5	11,5

-The characteristics and technical data are not binding. **Arven** reserves the right to make modifications without notice. Therefore weights, dimensions, performances and any other stated issues are indicative only and not binding

<b>TECHNICAL DATA</b>	<b>ARVEX 150 (AISI 304) 1 ~ Phase 3 ~ Phases</b>	<b>ARVEX 200 (AISI 304) 1 ~ Phase 3 ~ Phases</b>
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400V/50 Hz	--- 380-400 V/50 Hz
Power rating P1 (Kw)	2,2 1,7	--- 2,2
Current absorption (A)	10,4 3,3	--- 3,7
Max. High head pressure (mt)	13	14
Max. capacity (l/min)	425	450
Max temperature of liquid (°C)	50	50
Horizontal suction. (mm)	90	90
Max. submersion depth (mt)	5	5
N° of impellers	1	1
Electric cable (mt)	5-10	5-10
Foreign bodies aspir. up to ø... (mm)	50	50
Discharge connection thread <b>DNM</b>	1"	1 1/4"
Pump dimension <b>BxD</b> (mm)	176 x 398	176 x 398
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 480	190 x 230 x 480
Weight (Kg)	13,5	13,5

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<b>TECHNICAL DATA</b>	<b>ARVEX BC 100 1 ~ Phase 3 ~ Phases</b>	<b>ARVEX BC 150 1 ~ Phase 3 ~ Phases</b>	<b>ARVEX BC 200 1 ~ Phase 3 ~ Phases</b>
Electric connection/voltage (Hz)	220-230 V/50 Hz 380-400 V/50 Hz	220-230 V/50 Hz 380-400 V/50 Hz	--- 380-400 V/50 Hz
Power rating P1 (Kw)	1,5 1,3	2,2 1,7	--- 2,2
Current absorption (A)	7 3,2	11,5 4,5	--- 4,8
Max. High head pressure (mt)	11,5	14,5	16
Max. capacity (l/min)	500	600	700
Max temperature of liquid (°C)	50	50	50
Horizontal suction. (mm)	70	70	70
Max. submersion depth (mt)	5	5	5
N° of impellers	1	1	1
Electric cable (mt)	5-10	5-10	5-10
Foreign bodies aspir. up to ø... (mm)	50	50	50
Discharge connection thread <b>DNM</b>	2"	2"	2"
Pump dimension <b>BxD</b> (mm)	176 x 369	176 x 409	176 x 409
Packing dimension <b>LxMxN</b> (mm)	190 x 230 x 480	190 x 230 x 480	190 x 230 x 480
Weight (Kg)	12,5	14,5	14,5

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